CARROLL COUNTY HEALTH DEPARTMENT BUREAU OF ENVIRONMENTAL HEALTH 290 South Center Street

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	Date of disinfection:
Well [	Disinfection Procedure Checklist
For d	isinfection of well after a positive bacteria sample or after well pump replacement or significant plumbing
repai	rs/projects
	Determine depth of standing water (Review Health Department records if available) ft.
	Purchase household (5-10%) liquid bleach (see chart on reverse side) and calcium hypochlorite (pool
	shock) tablets or granules (not slow release)
	If electric water heater, turn off at circuit breaker. If gas, turn to pilot. This allows the bleach to work.
	Remove well cap – verify integrity of gasket, screen, conduit
	Pour two (2) ounces by weight of calcium hypochlorite (pool shock) tablets or granules into well
	Mix appropriate amount of household (5-10%) liquid bleach (see chart on reverse side) with an equal
	amount of water (increase amount of liquid bleach by 50% if shock tablets or granules are not available)
	Amount of bleach:
	Pour chlorine/water mixture into well coating inside of well. "Chase" it with a bucket of fresh water
	Wait 30 minutes – Start time:
	Run water at an outside tap until there is a chlorine smell – this could vary widely based on well depth and
	other factors
	Bypassing any charcoal or reverse osmosis devices, run all faucets (hot, cold, outside), one at a time until
	chlorine smell is detected
	Flush all toilets
	Drain a small amount of water from the bottom of the hot water heater and the pressure tank
	Cycle any appliance connected to the water supply (ice maker, dishwasher, humidifier,) to get
	chlorinated water inside the unit. Consult with a plumber or other water service technician before
	disinfecting water treatment equipment
	Attach garden hose to outside tap and rinse inside of well casing with chlorinated water for no more than
	one minute – stop if water becomes cloudy
	Replace well cap securely – Correct any deficiencies
	Allow water to remain in plumbing for at least 12 hours – toilets may be flushed
	Run water off intermittently (generally alternating ½ hour on and ½ hour off except for very low yield
	wells) through a hose connected to an outside tap away from the house and septic system
	When chlorine cannot be detected at the hose, turn water heater back on and flush taps and appliances
	with fresh water – Use care initially especially with laundry and bathing as chlorine levels could be high
	Contact Health Department to schedule follow up sampling

## **Well Disinfection Bleach Calculation**

Total well depth (WD):	feet
Depth to top of water table (DWT):	feet
WD minus DWT =	feet of standing water in well

On the chart below, round up to the next depth. For example, if your well is 385 feet deep and the water table is at 30 feet, there is 355 feet of standing water in the well. Use the amounts for 370 feet.

Assuming a six-inch well diameter				
Feet of standing	Amount of liquid	Amount of liquid household		
water in well	household bleach*	bleach* if not using pool		
		shock		
≤200	½ gallon	¾ gallon		
270	½ gallon + 2 cups	¾ gallon + 3 cups		
320	¾ gallon	1 gallon + 2 cups		
370	¾ gallon + 2 cups	1 ¼ gallon + 1 cup		
420	1 gallon	1 ½ gallons		
640	1 ½ gallons	2 ¼ gallons		
*3 ounces of bleach per 10 feet of standing water, minimum ½ gallon				